BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK : Augmentation of Water Supply Through Borewell, Network of Pipelines and Ground Water Recharge Facilities in various layouts in Ward No-05 and Ward No-06 Byatarayanapura Sub Division

								Modified Estimation Cost.Rs	42453093.29
Sl. No	Description of Item	Unit	No	Length (m)	Bread (m)	Dept (m)	Quantity	Rate	Amount
1	Geophysical Investigation of site for sinking Borewell Geophysical Investigation of site for sinking Borewell for supplying drinking water to the habitation either through a hand pump, Mini Water Supply scheme, or Piped Water Supply Scheme by vertical electrical sounding by adopting venner or Schlumberger's method, including reconnaissance survey of geological formation, geophysical investigation of existing ground water in the vicinity, its quality, quantity & acceptability of the users indicating the location of site, recommended depth of casing pipe required to seal the top unconsolidated formation incluing an extra depth of 1.0 metre in consolidated formation for proper seating of casing pipe, depth of drilling required to cover full depth of aquifer proposed to be tapped, probable yield and other information required including transportation of instrument and accessories to work site, engaging technical personal and labour required etc., complete and as per the directions of the Engineer-in-charge of the work.(P.No - 148, I.No-13.04,RWS 19-20 SR)								
	Ward No 05								
	Palanahalli Surrounding	Each BW	6				**6.00**		
	Thirumenahalli Surrounding	Each BW	6				**6.00**		
	Chokkanahalli Surrounding	Each BW	6				**6.00**		
	kattegenahalli Surrounding	Each BW	5				**5.00**		
	Ward No 06								
	Dasarahalli/Rachenhalli	Each BW	6				**6.00**		
	Thanisandra		5				**5.00**		
	Total						**34.00**	**4074.70**	**138539.80**
	Tender Quantity						**36.00**		
2	Sinking of Borewell of 165mm dia clear using super fast hydraulic rig of capacity 300 PSIG & above 1100 CMF & above in all strata including over burdern. Fixing of casing pipes, collars and cap with necessary cutting, threading and welding including transportation of rig and supporting vehicle, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (Excluding cost of casing pipes, collars, cap etc., complete), complete and as per the directions of the Engineer-in-charge of the work .(P.No - 148, I.No-13.01,RWS 19-20 SR)								
	0.00 to 50.00 mtrs								
	Ward No 05								
	Palanahalli Surrounding								
	0-50mtrs	Rmtr	6	50.00			**300.00**		
	Thirumenahalli Surrounding								
	0-50mtrs		6	50.00			**300.00**		
	Chokkanahalli Surrounding								
	0-50mtrs		6	50.00			**300.00**		
	kattegenahalli Surrounding								
	0-50mtrs		5	50.00			**250.00**		
	Ward No 06								
	Dasarahalli/Rachenhalli								
	0-50mtrs		6	50.00			**300.00**		
	Thanisandra								

Scanned by CamScanner

	0-50mtrs		5	50.00			250.00		
	Total						**1700.00**	**375.24**	**637908.00**
	Tender Quantity						**1800.00**		
3	**50.00 to 100.00 mtrs**								
	Ward No 05								
	Palanahalli Surrounding								
	50-100mtrs	Rmtr	6	50.00			300.00		
	Thirumenahalli Surrounding								
	50-100mtrs		6	50.00			300.00		
	Chokkanahalli Surrounding								
	50-100mtrs		6	50.00			300.00		
	kattegenahalli Surrounding								
	50-100mtrs		5	50.00			250.00		
	Ward No 06								
	Dasarahalli/Rachenhalli								
	50-100mtrs		6	50.00			300.00		
	Thanisandra								
	50-100mtrs		5	50.00			250.00		
	Total						**1700.00**	**477.98**	**812566.00**
	Tender Quantity						**1800.00**		
4	**100.00 to 150.00 mtrs**								
	Ward No 05								
	Palanahalli Surrounding								
	100-150mtrs	Rmtr	6	50.00			300.00		
	Thirumenahalli Surrounding								
	100-150mtrs		6	50.00			300.00		
	Chokkanahalli Surrounding								
	100-150mtrs		6	50.00			300.00		
	kattegenahalli Surrounding								
	100-150mtrs		5	50.00			250.00		
	Ward No 06								
	Dasarahalli/Rachenhalli								
	100-150mtrs		6	50.00			300.00		
	Thanisandra								
	100-150mtrs		5	50.00			250.00		
	Total						**1700.00**	**493.12**	**838304.00**
	Tender Quantity						**1800.00**		
5	**150.00 to 200.00 mtrs**								
	Ward No 05								
	Palanahalli Surrounding								
	150-200mtrs	Rmtr	6	50.00			300.00		
	Thirumenahalli Surrounding								
	150-200mtrs		6	50.00			300.00		
	Chokkanahalli Surrounding								
	150-200mtrs		6	50.00			300.00		
	kattegenahalli Surrounding								
	150-200mtrs		5	50.00			250.00		
	Ward No 06								
	Dasarahalli/Rachenhalli								
	150-200mtrs		6	50			300.00		
	Thanisandra								
	150-200mtrs		5	50			250.00		
	Total						**1700.00**	**579.63**	**985371.00**

Scanned by CamScanner

	Tender Quantity						**1800.00**		
6	**200.00 to 250.00 mtrs**								
	Ward No 05								
	Palanahalli Surrounding								
	200-250mtrs	Rmtr	6	50.00			**300.00**		
	Thirumenahalli Surrounding								
	200-250mtrs		6	50.00			**300.00**		
	Chokkanahalli Surrounding								
	200-250mtrs		6	50.00			**300.00**		
	kattegenahalli Surrounding								
	200-250mtrs		5	50.00			**250.00**		
	Ward No 06								
	Dasarahalli/Rachenhalli								
	200-250mtrs		6	50			**300.00**		
	Thanisandra								
	200-250mtrs		5	50			**250.00**		
	Total						**1700.00**	**685.61**	**1165537.00**
	Tender Quantity						**1800.00**		
7	**250.00 to 300.00 mtrs**								
	Ward No 05								
	Palanahalli Surrounding								
	250-300mtrs	Rmtr	6	50.00			**300.00**		
	Thirumenahalli Surrounding								
	250-300mtrs		6	50			**300.00**		
	Chokkanahalli Surrounding								
	250-300mtrs		6	50			**300.00**		
	kattegenahalli Surrounding								
	250-300mtrs		5	50			**250.00**		
	Ward No 06								
	Dasarahalli/Rachenhalli								
	250-300mtrs		6	50			**300.00**		
	Thanisandra								
	250-300mtrs		5	50			**250.00**		
	Total						**1700.00**	**756.98**	**1286866.00**
	Tender Quantity						**1800.00**		
8	**300.00 to 350.00 mtrs**								
	Ward No 05								
	Palanahalli Surrounding								
	300-350mtrs	Rmtr	6	50.00			**300.00**		
	Thirumenahalli Surrounding								
	300-350mtrs		6	50.00			**300.00**		
	Chokkanahalli Surrounding								
	300-350mtrs		6	50.00			**300.00**		
	kattegenahalli Surrounding								
	300-350mtrs		5	50.00			**250.00**		
	Ward No 06								
	Dasarahalli/Rachenhalli								
	300-350mtrs		6	50.00			**300.00**		
	Thanisandra								
	300-350mtrs		5	50.00			**250.00**		
	Total						**1700.00**	**892.15**	**1516655.00**
	Tender Quantity						**1800.00**		
9	**350.00 to 400.00 mtrs**								
	Ward No 05								

Scanned by CamScanner

	Palanahalli Surrounding								
	350-400mtrs	Rmtr	6	50.00			**300.00**		
	Thirumenahalli Surrounding								
	350-400mtrs		6	50.00			**300.00**		
	Chokkanahalli Surrounding								
	350-400mtrs		6	50.00			**300.00**		
	kattegenahalli Surrounding								
	350-400mtrs		5	50.00			**250.00**		
	Ward No 06								
	Dasarahalli/Rachenhalli								
	350-400mtrs		6	50.00			**300.00**		
	Thanisandra								
	350-400mtrs		5	50.00			**250.00**		
	Total						**1700.00**	**973.26**	**1654542.00**
	Tender Quantity						**1800.00**		
10	Supply of ISI Mark nominal bore, plain end steel casing pipe-grade of steel Fe 410 of wall thickness conforming to IS 4270-2001 and latest amendments, electrical resistance welded steel tube material and conforming to IS 1387- 1993 and manufactured by basic open hearth electric or basic oxygen process in random length of 5 to 7m. Both ends threaded conforming to IS 554-1985, one end fixed with socket conforming to IS 4270-2001 and the other end with screwed pipes. All pipes shall be resonably free from defects. The tubes shall be resonably straight and should be with ISI marking weighing 25.10kg/m. (exclusive of all taxes and duties). Prices include Collar-Medium duty 175mm dia x 5.4mm thick - Rs.950.00 complete and as per the directions of the Engineer-in-charge of the work.(P.No-338, Sl.No-15.85,RWS 19-20 SR)								
	Ward No 05								
	Palanahalli Surrounding	Rmtr	6	60.00			**360.00**		
	Thirumenahalli Surrounding		6	60.00			**360.00**		
	Chokkanahalli Surrounding		6	60.00			**360.00**		
	kattegenahalli Surrounding		5	60.00			**300.00**		
	Ward No 06								
	Thanisandra		6	60.00			**360.00**		
	Dasarahalli /Rachenhalli		5	60.00			**300.00**		
	Total						**2040.00**	**1432.85**	**2923014.00**
	Tender Quantity						**2160.00**		
11	Providing and fixing 250mm dia PVC Pipe complete as specification and direction of Engineer In charge of work								
	Ward No 05								
	Palanahalli Surrounding	m	6	10.00			**60.00**		
	Thirumenahalli Surrounding		6	10.00			**60.00**		
	Chokkanahalli Surrounding		6	10.00			**60.00**		
	kattegenahalli Surrounding		5	10.00			**50.00**		
	Ward No 06								
	Thanisandra		5	10.00			**50.00**		
	Dasarahalli /Rachenhalli		6	10.00			**60.00**		
	Total						**340.00**	**2313.34**	**786535.60**
	Tender Quantity						**360.00**		
12	175mm dia M.S. Casing capcomplete as per specifications and directions of Engineer in charge of work.								
	Ward No 05								
	Palanahalli Surrounding	Each BW	6				**6**		
	Thirumenahalli Surrounding		6				**6**		

Scanned by CamScanner

	Chokkanahalli Surrounding		6				6		
	kattegenahalli Surrounding		5				5		
	Ward No 06						0		
	Thanisandra		5				5		
	Dasarahalli /Rachenhalli		6				6		
	Total						34	108.14	3676.76
	Tender Quantity						36		
13	Fabrication supplying and mounting MS box of 16 SWG suitable for floor /wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished 2 coats of red oxide primer paint and finally finished with approved colour enamelled metal paint etc., complete box of 21600 sqcm with all lead and lift, loading, unloading and labour charges etc., complete and as per the directions of the Engineer-in-charge of the work.(P.No-30,I.No-5.42,KPWD Electrical SR 19-20)								
	Ward No 05								
	Palanahalli Surrounding	Sq.cm	6	1100	20		132000.00		
	Thirumenahalli Surrounding		6	1100	20		132000.00		
	Chokkanahalli Surrounding		6	1100	20		132000.00		
	kattegenahalli Surrounding		5	1100	20		110000.00		
	Ward No 06								
	Dasarahalli/Rachenhalli		6	1100	20		132000.00		
	Thanisandra		5	1100	20		110000.00		
	additional boxes for replacing damaged boxes		6	1100	20		132000.00		
	Total						**880000.00**		
	Tender Quantity						**792000.00**		
	Quantity upto 125%						**880000.00**	**0.37**	**325600.00**
14	Supply and delivery at site wrought middle steel (galvanized) 50 mm dia GI union confirming to IS 1239-II, 1991 with latest amendments if any. (RDWS SR 2019-20 C-15/P-258 I. No. 15.78.5)								
	Ward No 05								
	Palanahalli Surrounding	No	6	1			6		
	Thirumenahalli Surrounding		6	1			6		
	Chokkanahalli Surrounding		6	1			6		
	kattegenahalli Surrounding		5	1			5		
	Ward No 06								
	Thanisandra		6	1			6		
	Dasarahalli /Rachenhalli		5	1			5		
	Total						**34**	**189.24**	**6434.16**
	Tender Quantity						**36**		
15	Supply and delivery at site wrought middle steel (galvanized) 50 mm dia GI hexagonal nipple confirming to IS 1239-II, 1991 with latest amendments if any. (RDWS SR 2019-20 C-15/P-258 I. No. 15.80.5)								
	Ward No 05								
	Palanahalli Surrounding	No	6	3			18.00		
	Thirumenahalli Surrounding		6	3			18.00		
	Chokkanahalli Surrounding		6	3			18.00		
	kattegenahalli Surrounding		5	3			15.00		
	Ward No 06								

Scanned by CamScanner

	Dasarahalli/Rachenhalli		6	3			18.00		
	Thanisandra		5	3			15.00		
	Total						**102.00**	**151.40**	**15442.80**
	Tender Quantity						**108.00**		
16	Supply and delivery at site wrought middle steel (galvanized) 50 mm dia GI elbow confirming to IS 1239-II, 1991 with latest amendments if any.(RDWS SR 2019-20 C-15/P-257 I. No. 15.73.5)								
	Ward No 05								
	Palanahalli Surrounding	No	6	3.00			18.00		
	Thirumenahalli Surrounding		6	3.00			18.00		
	Chokkanahalli Surrounding		6	3.00			18.00		
	kattegenahalli Surrounding		5	3.00			15.00		
	Ward No 06								
	Thanisandra		6	3.00			18.00		
	Dasarahalli /Rachenhalli		5	3.00			15.00		
	Total						**102.00**	**189.24**	**19302.48**
	Tender Quantity						**108.00**		
17	Labour charges for Erection, Electrification and commissioning works of Pump sets including aligning and balancing with all necessary erection of materials and labour including supply and erection of two pair of supporting clamps, bore well caps, cable clips and water tight gland cable protectors, bolts, nuts, valve and gauges, tools and equipments etc., involved in the job. as per specifications, with testing of as per instructions of engineer incharge of work(P.No - 130, I.No-12.16,RWS 19-20 SR)								
	Ward No 05								
	Palanahalli Surrounding	Job	6				6.00		
	Thirumenahalli Surrounding		6				6.00		
	Chokkanahalli Surrounding		6				6.00		
	kattegenahalli Surrounding		5				5.00		
	Ward No 06								
	Dasarahalli/Rachenhalli		6				6.00		
	Thanisandra		5				5.00		
	Total						**34.00**	**6109.89**	**207736.26**
	Tender Quantity						**36.00**		
18	Labour charges for Erection of outdoor type panel board and meter board units with all necessary materials and labour tools and equipments including providing cement concrete foundation bed etc., complete. as per specifications, with testing of as per instructions of engineer incharge of work(P.No - 131, I.No-12.18,RWS 19-20 SR)								
	Ward No 05								
	Palanahalli Surrounding	Job	6				6.00		
	Thirumenahalli Surrounding		6				6.00		
	Chokkanahalli Surrounding		6				6.00		
	kattegenahalli Surrounding		5				5.00		
	Ward No 06								
	Dasarahalli/Rachenhalli		6				6.00		
	Thanisandra		5				5.00		
	Total						**34.00**	**1295.51**	**44047.34**
	Tender Quantity						**36.00**		
19	Supplying of 1.1KV LT UG cable XPLE or heat resistant PVC Insulated PVC eatruded inner sheath armoured UG LT cable as per IS -1554(Part-1) or IS-7098 Part-1,Armouring strip thickness in average +5% and resistivity 14ohms/kms(max) as per IS -3975 4 core 16sqmm (Ele SR 2019-20 P-No 40 I/No-6.4.4)								
	Ward No 05								

Scanned by CamScanner

	Palanahalli Surrounding	Rmtr	6	45.00			270.00		
	Thirumenahalli Surrounding		6	45.00			270.00		
	Chokkanahalli Surrounding		6	45.00			270.00		
	kattegenahalli Surrounding		5	45.00			225.00		
	Ward No 06								
	Dasarahalli/Rachenhalli		6	45.00			270.00		
	Thanisandra		5	45.00			225.00		
	Total						**1530.00**	**157.49**	**240959.70**
	Tender Quantity						**1620.00**		
20	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe/ stone pipe / on wall/ on pole as required 6 sqmm to 16 sqmm. (Ele SR OF 2019-20 P-No 41 I/No-6.5.1)								
	Ward No 05								
	Palanahalli Surrounding	Rmtr	6	45.00			**270.00**		
	Thirumenahalli Surrounding		6	45.00			**270.00**		
	Chokkanahalli Surrounding		6	45.00			**270.00**		
	kattegenahalli Surrounding		5	45.00			**225.00**		
	Ward No 06								
	Dasarahalli/Rachenhalli		6	45.00			**270.00**		
	Thanisandra		5	45.00			**225.00**		
	Total						**1530.00**	**12.47**	**19079.10**
	Tender Quantity						**1620.00**		
21	Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc., complete cutting road surfaces(P.No - 41, I.No -6.6.3, KPWD Electrical SR 19-20)								
	Ward No 05								
	Palanahalli Surrounding	Mtr	6	45.00			**270.00**		
	Thirumenahalli Surrounding		6	45.00			**270.00**		
	Chokkanahalli Surrounding		6	45.00			**270.00**		
	kattegenahalli Surrounding		5	45.00			**225.00**		
	Ward No 06								
	Dasarahalli/Rachenhalli		6	45.00			**270.00**		
	Thanisandra		5	45			**225.00**		
	Total						**1530.00**	**86.09**	**131717.70**
	Tender Quantity						**1620.00**		
22	Supplying and fixing of class A GI pipe on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV class 40mm (P.No - 41, I.No -6.9.1, KPWD Electrical SR 19-20)								
	Ward No 05								
	Palanahalli Surrounding	Mtr	6	4.00			24.00		
	Thirumenahalli Surrounding		6	4.00			24.00		
	Chokkanahalli Surrounding		6	4.00			24.00		
	kattegenahalli Surrounding		5	4.00			20.00		
	Ward No 06								
	Dasarahalli/Rachenhalli		6	4.00			24.00		
	Thanisandra		5	4.00			20.00		
	Total						**136.00**	**351.72**	**47833.92**
	Tender Quantity						**144.00**		

Scanned by CamScanner

23	Earthing: Supplying and fixing and wiring earth electrode for grounding circuits IC cutouts and other equipments on the meter board in the pit. The pits should be filled up with equal proportion of salt and charcoal 150mm around the pipe to complete depth. The connection from the pipe to the conduits etc. is to established through GI wire of sizes as per clause 7.3.3 of IS 732 using 12mm bolts, nuts, washers and check nuts, the pipe shall have 16 through holes of 12mm dia.(P.No - 131, I.No-12.23,RWS 19-20 SR)								
	Ward No 05								
	Palanahalli Surrounding	Nos	6				6		
	Thirumenahalli Surrounding		6				6		
	Chokkanahalli Surrounding		6				6		
	kattegenahalli Surrounding		5				5		
	Ward No 06								
	Dasarahalli/Rachenhalli		6				6		
	Thanisandra		5				5		
	Total						**34**	**3928.72**	**133576.48**
	Tender Quantity						**36**		
24	Providing, Supplying and fixing LT cast iron pot heads suitable for 1.1 KV class UG cable filled with necessary bitumen/insulating compound complete with terminals, clamps, bolts, nuts and washers etc.with all necessary materials and labour tools and equipments . as per specifications, with testing of as per instructions of engineer incharge of work a) 3½x6 Sqmm (P.No - 131, I.No-12.22(a),RWS 19-20 SR)								
	Ward No 05								
	Palanahalli Surrounding	Nos	6				6		
	Thirumenahalli Surrounding		6				6		
	Chokkanahalli Surrounding		6				6		
	kattegenahalli Surrounding		5				5		
	Ward No 06								
	Dasarahalli/Rachenhalli		6				6		
	Thanisandra		5				5		
	Total						**34**	**537.45**	**18273.30**
	Tender Quantity						**36**		
25	Supplying and fixing of polished wood board made of not less than 15mm thick plank on both sides with planks made out of not more than 2 pieces and fixing the same to the wall using tapered inverted wooden plugs screws etc.,Size 20 x 20 x 2.5 inches with all lead and lift, loading, unloading and labour charges etc., complete and as per the directions of the Engineer-in-charge of the work(P.No - 24, I.No -5.6.6, KPWD Electrical SR 19-20)								
	Ward No 05								
	Palanahalli Surrounding	Nos	6				6		
	Thirumenahalli Surrounding		6				6		
	Chokkanahalli Surrounding		6				6		
	kattegenahalli Surrounding		5				5		
	Ward No 06								
	Dasarahalli/Rachenhalli		6				6		
	Thanisandra		5				5		
	Total						**34.00**	**306.57**	**10423.38**
	Tender Quantity						**36.00**		

Scanned by CamScanner

	Supply and delivery at site brand New texmo/ innoval/ Lubi/ Sabar / Atalanta/ Calamal/ make suitable for vertical installation in 150mm dia bore well comprising of single stage or multistage CF pump close coupled by measns of stainless steel coupling to suitable HP suitable speed totally enclosed and filled with pure drinking water (Wet type) squirrel cage submersible induction motor suitable for opertation of 3PH., 50 Hz, 380/440 volts AC supply fitted with required aqccessories such as suction, casing suction strainers sand guard Non return value etc. complete . The pump and motor shall form an integral unit with all the required fittings **20 HP 40 Stage**(PWD SR 18-19, P.No.XLII Sl.no,60)								
	Ward No 05								
	Palanahalli Surrounding	Nos	6				6		
	Thirumenahalli Surrounding		6				6		
	Chokkanahalli Surrounding		6				6		
	kattegenahalli Surrounding		5				5		
	Total						**23**	**95115.69**	**2187660.87**
	Tender Quantity						**24**		
27	Supply and delivery at site brand New texmo/ innoval/ Lubi/ Sabar / Atalanta/ Calamal/ make suitable for vertical installation in 150mm dia bore well comprising of single stage or multistage CF pump close coupled by measns of stainless steel coupling to suitable HP suitable speed totally enclosed and filled with pure drinking water (Wet type) squirrel cage submersible induction motor suitable for opertation of 3PH., 50 Hz, 380/440 volts AC supply fitted with required aqccessories such as suction, casing suction strainers sand guard Non return value etc. complete . The pump and motor shall form an integral unit with all the required fittings **17.5 HP 30 Stage**(PWD SR 18-19, P.No.XLII Sl.no,60)								
	Ward No 06								
	Dasarahalli/Rachenhalli	Nos	6				6		
	Thanisandra		5				5		
	Additianl pump motor for replacing old damaged pump		2				2		
	Total						**13**		
	Tender Quantity						**12**		
	Quantity upto 125%						**13.00**	**75725.09**	**984426.17**
28	Supply and delivery of galvanized mild steel tubes of 6 mtr standard length heavy class (C Class) as per IS 1239 (Part-I) 1990 with latest amendments with ISI Mark (one end fitted with heavy duty collar and other end fitted with protective cover) (50mm) (P.No - 130, I.No-12.11(a),RWS 19-20 SR)								
	Ward No 05								
	Palanahalli Surrounding	Rmtr	6	59.00			**354.00**		
	Thirumenahalli Surrounding		6	59.00			**354.00**		
	Chokkanahalli Surrounding		6	59.00			**354.00**		
	kattegenahalli Surrounding		5	59.00			**295.00**		
	Ward No 06								
	Dasarahalli/Rachenhalli		6	59.00			**354.00**		
	Thanisandra		5	59.00			**295.00**		
	Total						**2006.00**	**3004.12**	**6026264.72**
	Tender Quantity						**2124.00**		
29	Supplying and drawing 3 core flat PVC sheathed submersible pump cable manufactured with electrolytic grade copper with flexible copper with low resistance conductor confirming to IS:8130-1984 and virgin grade PVC insulation and powder coating extruded PVC sheathed suitable for working voltage upto 1100Volts as per IS-694:1990.complete and as per the directions of the Engineer-in-charge of the work(P.No - 7, I.No -2.6.4, KPWD Electrical SR 19-20)								
	Ward No 05								
	Palanahalli Surrounding	Mtr	6	738.00			**4428.00**		
	Thirumenahalli Surrounding		6	738.00			**4428.00**		
	Chokkanahalli Surrounding		6	738.00			**4428.00**		

Scanned by CamScanner

	kattegenahalli Surrounding			5	738.00			3690.00		
	Ward No 06									
	Dasarahalli/Rachenhalli			6	738.00			4428.00		
	Thanisandra			5	738.00			3690.00		
	Total							**25092.00**	**215.23**	**5400551.16**
	Tender Quantity							**26568.00**		
30	Supplying & delivery at site brand new / Essen / lotus sunsines/Adarsh/Gk controls best indigenous make combine energy meter-cum-control panel board unit of size 1200 x 600 x 300 mm minimum mechanically strong and vermin and water proof the unit shall have two detachable doors suitable for operation on 3ph,50Hz, 380/440 volts, AC supply with spring loaded latch locking with a key ribs should be provided inside the door canopy apron and louvers ventilators shall be provided the combine energy mtr cum control panel board unit suitable for operation on 3ph, 50Hz,380/440 AC supply shall be consisted etc., completed T panel board shall be fabricated on single unit in the above components panel board for suitable pumpset above components panel board for suitable pumpset above Up to 20HP with star delta starter (MR) Page No.XLVII, Sl No.13, PWD SR 2018-19									
	Ward No 05									
	Palanahalli Surrounding		Nos	6				**6.00**		
	Thirumenahalli Surrounding			6				**6.00**		
	Chokkanahalli Surrounding			6				**6.00**		
	kattegenahalli Surrounding			5				**5.00**		
	Ward No 06									
	Dasarahalli/Rachenhalli			6				**6.00**		
	Thanisandra			5				**5.00**		
	Total							**34.00**	**22047.90**	**749628.60**
	Tender Quantity							**36.00**		
31	Supply and delivery at site of brand new best make gate valve as per IS 778/1984 with ISI Mark and as per its latest amendments a)size 50mm									
	Ward No 05									
	Palanahalli Surrounding		Each	6				**6**		
	Thirumenahalli Surrounding			6				**6**		
	Chokkanahalli Surrounding			6				**6**		
	kattegenahalli Surrounding			5				**5**		
	Ward No 06									
	Dasarahalli/Rachenhalli			6				**6**		
	Thanisandra			5				**5**		
	Total							**34**	**1286.86**	**43753.24**
	Tender Quantity							**36**		
32	Supply and delivery at site of brand new best make non-return valve as per IS 778/1984 with ISI Mark and as per its latest amendments a)size 50mm									
	Ward No 05									
	Palanahalli Surrounding		Each	6				**6**		
	Thirumenahalli Surrounding			6				**6**		
	Chokkanahalli Surrounding			6				**6**		
	kattegenahalli Surrounding			5				**5**		
	Ward No 06									
	Dasarahalli/Rachenhalli			6				**6**		
	Thanisandra			5				**5**		
	Total							**34**	**1270.64**	**43201.76**
	Tender Quantity							**36**		

Scanned by CamScanner

33	Supply and delivery at site delivery of best indigenous brand new MCB (Miniature Circuit Breakers) of required capacity as per IS 88228/1978 and its latest amendments and with ISI Mark of 6/10/16/20/25/40 Amps with scalable box. (P.No - 130, I.No-12.10,RWS 19-20 SR)								
	Ward No 05								
	Palanahalli Surrounding	Each	6				6		
	Thirumenahalli Surrounding		6				6		
	Chokkanahalli Surrounding		6				6		
	kattegenahalli Surrounding		5				5		
	Ward No 06								
	Dasarahalli/Rachenhalli		6				6		
	Thanisandra		5				5		
	Total						**34**	**1108.43**	**37686.62**
	Tender Quantity						**36**		
34	Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in Ordinary soil not exceeding 1.5m in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m after breaking of clods complete as per specifications(P.No - 6, I.No - 2.3, PWD SR 18-19)								
	Ward No 05								
	Palanahalli Surrounding								
	For Replacing/extension of pipeline	Cum	6	240.00	0.60	0.75	648.00		
	For Connecting borewell		6	197.00	0.60	0.75	531.90		
	Thirumenahalli Surrounding								
	For Replacing/extension of pipeline		6	240.00	0.60	0.75	648.00		
	For Connecting borewell		6	197.00	0.60	0.75	531.90		
	Chokkanahalli Surrounding								
	For Replacing/extension of pipeline		6	240.00	0.60	0.75	648.00		
	For Connecting borewell		6	197.00	0.60	0.75	531.90		
	kattegenahalli Surrounding								
	For Replacing/extension of pipeline		5	240.00	0.6	0.75	540.00		
	For Connecting borewell		5	197.00	0.6	0.75	443.25		
	Ward No 06								
	Thanisandra								
	For Replacing/extension of pipeline		5	235.00	0.6	0.75	528.75		
	For Connecting borewell		5	220.00	0.6	0.75	495.00		
	Dasarahalli / Rachenhalli								
	For Replacing/extension of pipeline at Hegdenagar		10	250.00	0.6	0.75	1125.00		
	For Connecting borewell		6	220.00	0.6	0.75	594.00		
	Total						**7265.70**	**332.76**	**2417734.33**
	Tender Quantity						**7835.40**		
35	Providing and installing at site of work 63mm (0.662) PVC Pipes of 6kg / cm2 including cost of pipes and specials and labour, including lowering into trenches, laying true to line, level and perfect linking at joints leak proof including joining of approved type with all labour and lift charges, handling charges including encasing the pipe alround to a depth not less than 15cms with gravel or selected earth available from the excavation etc., complete (P.No -89, Sl.No - 10.01.2,RWS 19-20)								
	Ward No 05								
	Palanahalli Surrounding								

Scanned by CamScanner

For Replacing/extension of pipeline	Mtr	6	240.00			1440.00		
For Connecting borewell		6	197.00			1182.00		
Thirumenahalli Surrounding								
For Replacing/extension of pipeline		6	240.00			1440.00		
For Connecting borewell		6	197.00			1182.00		
Chokkanahalli Surrounding								
For Replacing/extension of pipeline		6	240.00			1440.00		
For Connecting borewell		6	197.00			1182.00		
kattegenahalli Surrounding								
For Replacing/extension of pipeline		5	240.00			1200.00		
For Connecting borewell		5	197.00			985.00		
Ward No 06								
Thanisandra								
For Replacing/extension of pipeline		5	235.00			1175.00		
For Connecting borewell		5	220.00			1100.00		
Dasarahalli / Rachenhalli								
For Replacing/extension of pipeline at Hegdenagar		10	250.00			2500.00		
For Connecting borewell		6	220.00			1320.00		
Total						**16146.00**	**133.01**	**2147579.46**
Tender Quantity						**17412.00**		

36 Refilling available earth around pipe lines, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m and lift upto 1.5m including cost of all labour complete as per specifications (P.No - 7, I.No - 2.11, PWD SR 18-19)

Ward No 05								
Palanahalli Surrounding								
For Replacing/extension of pipeline	Cum	6	240.00	0.60	0.75	648.00		
For Connecting borewell		6	197.00	0.60	0.75	531.90		
Thirumenahalli Surrounding								
For Replacing/extension of pipeline		6	240.00	0.60	0.75	648.00		
For Connecting borewell		6	197.00	0.60	0.75	531.90		
Chokkanahalli Surrounding								
For Replacing/extension of pipeline		6	240.00	0.60	0.75	648.00		
For Connecting borewell		6	197.00	0.60	0.75	531.90		
kattegenahalli Surrounding								
For Replacing/extension of pipeline		5	240.00	0.60	0.75	540.00		
For Connecting borewell		5	197.00	0.60	0.75	443.25		
Ward No 06								
Thanisandra								
For Replacing/extension of pipeline		5	235.00	0.60	0.75	528.75		
For Connecting borewell		5	220.00	0.60	0.75	495.00		
Dasarahalli / Rachenhalli								
For Replacing/extension of pipeline at Hegdenagar		10	250.00	0.60	0.75	1125.00		
For Connecting borewell		6	220.00	0.60	0.75	594.00		
Total						**7265.70**	**134.66**	**978399.16**

Scanned by CamScanner

	Tender Quantity						**7835.40**		
37	Cutting of road surface for pipeline trenches and disposing of the excavated stuff as directed including barricading, danger lighting etc. in the following classification. (RDWS SR 2019-20 Pg No.08 I No.2.26) Cutting Asphalt Road Surface(RDWS SR 2019-20Pg No.08 I No.2.26.2)								
	Ward No 05								
	Palanahalli Surrounding	Cum	6	100	0.6	0.15	**54.00**		
	Thirumenahalli Surrounding		6	100	0.60	0.15	**54.00**		
	Chokkanahalli Surrounding		6	100	0.60	0.15	**54.00**		
	kattegenahalli Surrounding		5	100	0.60	0.15	**45.00**		
	Ward No 06								
	Thanisandra		6	100	0.60	0.15	**54.00**		
	Dasarahalli / Rachenhalli		5	100	0.60	0.15	**45.00**		
	Total						**306.00**	**603.19**	**184576.14**
	Tender Quantity						**324.00**		
38	Earthwork excavation in soil, clay, sand, shedu soil, soft murrum, including shoring, strutting, barricading, danger lighting, bailing out water wherever necessary with stacking the materials as directed upto a lead of 50 Mtr and lift of 1.5 Mtr etc., complete.(RDWS SR 2019-20Pg No.08 I No.11.13)								
	Ward No 05								
	Palanahalli Surrounding								
	For Water Recharge Pits,	Cum	6	3.14x1.80x1.80/4		3.00	45.78		
	Thirumenahalli Surrounding								
	For Water Recharge Pits,		6	3.14x1.80x1.80/4		3.00	45.78		
	Chokkanahalli Surrounding								
	For Water Recharge Pits,		6	3.14x1.80x1.80/4		3.00	45.78		
	kattegenahalli Surrounding								
	For Water Recharge Pits,		5	3.14x1.80x1.80/4		3.00	38.15		
	Ward No 06								
	Thanisandra								
	For Water Recharge Pits,		6	3.14x1.80x1.80/		3.00	45.78		
	Dasarahalli / Rachenhalli								
	For Water Recharge Pits,		5	3.14x1.80x1.80/4		3.00	38.15		
	Total						**259.43**	**374.16**	**97068.33**
	Tender Quantity						**274.69**		
39	Add for additional lift charges for every lift of 1.50 M or part thereof beyond 1.50 Mtr to 10.50 Mtr (RDWS SR 2019-20Pg No.08 I No.11.13.1)								
	Ward No 05								
	Palanahalli Surrounding								
	For Water Recharge Pits,	Cum	6	3.14x1.80x1.80/4		1.50	22.89		
	Thirumenahalli Surrounding								
	For Water Recharge Pits,		6	3.14x1.80x1.80/4		1.5	22.89		
	Chokkanahalli Surrounding								
	For Water Recharge Pits,		6	3.14x1.80x1.80/4		1.5	22.89		
	kattegenahalli Surrounding								
	For Water Recharge Pits,		5	3.14x1.80x1.80/4		1.5	19.08		
	Ward No 06								
	Thanisandra								

Scanned by CamScanner

	For Water Recharge Pits,		6	3.14x1.80x1.80/4	1.5	22.89		
	Dasarahalli / Rachenhalli							
	For Water Recharge Pits,		5	3.14x1.80x1.80/4	1.5	19.08		
	Total					**129.71**	**61.64**	**7995.32**
	Tender Quantity					**137.34**		
40	Providing and laying in position plain cement concrete of grade M 10 with cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregtes @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, including cost of all materials, labour, HOM of machinery, curing,lowering to any depth, dewatering etc., complete as per specifications with all lead and lifts for Foundation of steining. (RDWS SR 2019-20Pg No.08 I No.11.17)								
	Ward No 05								
	Palanahalli Surrounding								
	For Water Recharge Pits,	Cum	6	3.14x1.2	0.15	0.15	0.51		
	Thirumenahalli Surrounding								
	For Water Recharge Pits,		6	3.14x1.2	0.15	0.15	0.51		
	Chokkanahalli Surrounding								
	For Water Recharge Pits,		6	3.14x1.2	0.15	0.15	0.51		
	kattegenahalli Surrounding								
	For Water Recharge Pits,		5	3.14x1.2	0.15	0.15	0.42		
	Ward No 06								
	Thanisandra								
	For Water Recharge Pits,		5	3.14x1.2	0.15	0.15	0.42		
	Dasarahalli / Rachenhalli								
	For Water Recharge Pits,		6	3.14x1.2	0.15	0.15	0.51		
	Total						**2.88**	**6524.07**	**18805.76**
	Tender Quantity						**3.05**		
41	100 mm and down nominal size (RDWS SR 2019-20,P No.I item No 23)								
	Ward No 05								
	Palanahalli Surrounding								
	For Water Recharge Pits,	Cum	6	3.14x1.20x1.20/4	0.60		4.07		
	Thirumenahalli Surrounding								
	For Water Recharge Pits,		6	3.14x1.20x1.20/4	0.6		4.07		
	Chokkanahalli Surrounding								
	For Water Recharge Pits,		6	3.14x1.20x1.20/4	0.6		4.07		
	kattegenahalli Surrounding								
	For Water Recharge Pits,		5	3.14x1.20x1.20/4	0.6		3.39		
	Ward No 06								
	Thanisandra								
	For Water Recharge Pits,		5	3.14x1.20x1.20/4	0.6		3.39		
	Dasarahalli / Rachenhalli								
	For Water Recharge Pits,		6	3.14x1.20x1.20/4	0.6		4.07		
	Total						**23.06**	**1068.01**	**24628.48**
	Tender Quantity						**24.42**		
42	**40 mm nominal size stone aggregates** ((RDWS SR 2019-20 P No I item No 25)								
	Ward No 05								

Scanned by CamScanner

	Palanahalli Surrounding								
	RCC Pits,	Cum	6	3.14x1.20x1.20/4		0.60	4.07		
	Filter media around rings		6	3.14x1.4	0.40	2.70	7.12		
	Thirumenahalli Surrounding								
	RCC Pits,		6	3.14x1.20x1.20/4		0.60	4.07		
	Filter media around rings		6	3.14x1.4	0.40	2.70	7.12		
	Chokkanahalli Surrounding								
	RCC Pits,		6	3.14x1.20x1.20/4		0.6	4.07		
	Filter media around rings		6	3.14x1.4	0.4	2.7	7.12		
	kattegenahalli Surrounding								
	RCC Pits,		5	3.14x1.20x1.20/4		0.6	3.39		
	Filter media around rings		5	3.14x1.4	0.4	2.7	5.93		
	Ward No 06								
	Thanisandra								
	RCC Pits,		5	3.14x1.20x1.20/4		0.6	3.39		
	Filter media around rings		5	3.14x1.4	0.4	2.7	5.93		
	Dasarahalli / Rachenhalli								
	RCC Pits,		6	3.14x1.20x1.20/4		0.6	4.07		
	Filter media around rings		6	3.14x1.4	0.4	2.7	7.12		
	Total						**63.42**	**1180.27**	**74847.34**
	Tender Quantity						**67.15**		
43	**20 mm nominal size stone aggregates ((RDWS SR 2019-20,P No I item No 28)**								
	Ward No 05								
	Palanahalli Surrounding								
	RCC Pits,	Cum	6	3.14x1.20x1.20/4		0.60	4.07		
	Thirumenahalli Surrounding								
	RCC Pits,		6	3.14x1.20x1.20/4		0.6	4.07		
	Chokkanahalli Surrounding								
	RCC Pits,		6	3.14x1.20x1.20/4		0.6	4.07		
	kattegenahalli Surrounding								
	RCC Pits,		5	3.14x1.20x1.20/4		0.6	3.39		
	Ward No 06								
	Thanisandra								
	RCC Pits,		5	3.14x1.20x1.20/4		0.6	3.39		
	Dasarahalli / Rachenhalli								
	RCC Pits,		6	3.14x1.20x1.20/4		0.6	4.07		
	Total						**23.06**	**1180.27**	**27217.22**
	Tender Quantity						**24.42**		
44	**6 mm nominal size stone aggregates ((RDWS SR 2019-20,P No I item No 31)**								
	Ward No 05								
	Palanahalli Surrounding								
	RCC Pits,	Cum	6	3.14x1.20x1.20/4		0.60	4.07		
	Thirumenahalli Surrounding								
	RCC Pits,		6	3.14x1.20x1.20/4		0.6	4.07		
	Chokkanahalli Surrounding								
	RCC Pits,		6	3.14x1.20x1.20/4		0.6	4.07		
	kattegenahalli Surrounding								
	RCC Pits,		5	3.14x1.20x1.20/4		0.6	3.39		

Scanned by CamScanner

	Ward No 06								
	Thanisandra								
	RCC Pits,		5	3.14x1.20x1.20/4	0.6	3.39		
	Dasarahalli / Rachenhalli								
	RCC Pits,		6	3.14x1.20x1.20/4	0.6	4.07		
	Total					**23.06**	**1180.27**	**27217.22**
	Tender Quantity					**24.42**		
45	KSRB 2.6: Providing and filling sand (RDWS SR 2019-20,P No II.item No 2d 51)							
	Ward No 05							
	Palanahalli Surrounding							
	RCC Pits,	Cum	6	3.14x1.20x1.20/4	0.50	3.39		
	Thirumenahalli Surrounding							
	RCC Pits,		6	3.14x1.20x1.20/4	0.5	3.39		
	Chokkanahalli Surrounding							
	RCC Pits,		6	3.14x1.20x1.20/4	0.5	3.39		
	kattegenahalli Surrounding							
	RCC Pits,		5	3.14x1.20x1.20/4	0.5	2.83		
	Ward No 06							
	Thanisandra							
	RCC Pits,		5	3.14x1.20x1.20/4	0.5	2.83		
	Dasarahalli / Rachenhalli							
	RCC Pits,		6	3.14x1.20x1.20/4	0.5	3.39		
	Total					**19.22**	**1817.78**	**34931.91**
	Tender Quantity					**20.35**		
46	Supplying & errection of RCC rings for well steining of 0.3 Mtr Depth using M-20 grade concrete using clean graded granite or trap or jelly of approved quality 20mm and down size well compacted including centering, formwork and plastering for both faces with C.M 1:3 proportion as per design using 6.50mm M.S. coil at the rate of 10 Kgs/ring including cost of steel and fabrication, bailing out of water, errection etc., complete. For 1.20m dia (clear) rings of steining thickness 0.075mm upto 18 M depth(RDWS SR 2019-20Pg No.08 & No.11.20.3)								
	Ward No 05							
	Palanahalli Surrounding							
	RCC Pits,	Each	60			60.00		
	Thirumenahalli Surrounding							
	RCC Pits,		60			60.00		
	Chokkanahalli Surrounding							
	RCC Pits,		60			60.00		
	kattegenahalli Surrounding							
	RCC Pits,		50			50.00		
	Ward No 06							
	Thanisandra							
	RCC Pits,		60			60.00		
	Dasarahalli / Rachenhalli							
	RCC Pits,		50			50.00		
	Total					**340.00**	**1199.27**	**407751.80**
	Tender Quantity					**360.00**		

Scanned by CamScanner

KSRB 7.9 : Providing and fixing M.S.grill work for windows and ventilators weighing 21kg/sqm using M.S. flats, or M.S. square rods, or combination of M.S. flats and square rods as per approved design, drawing including cutting steel sections and welding the same to required pattern with a coat of red lead primer, cost of materials, fixtures, labour and HOM complete as per specifications. Specification No.KBS 7.12 (p.g No 34.item No 7.9)							
Ward No 05							
Palanahalli Surrounding							
RCC Pits,	Sqm	6	3.14x1.20x1.20/4		6.78		
					6.78		
	Assum=21kg/sqm				23.73		
	Kg				142.43		
Thirumenahalli Surrounding							
RCC Pits,		6	3.14x1.20x1.20/4		6.78		
					6.78		
	Assum=21kg/sqm				23.73		
	Kg				142.43		
Chokkanahalli Surrounding							
RCC Pits,		6	3.14x1.20x1.20/4		6.78		
					6.78		
	Assum=21kg/sqm				23.73		
	Kg				142.43		
kattegenahalli Surrounding							
RCC Pits,		5	3.14x1.20x1.20/4		5.65		
					5.65		
	Assum=21kg/sqm				23.73		
	Kg				118.69		
Ward No 06							
Thanisandra							
RCC Pits,		6	3.14x1.20x1.20/4		6.78		
					6.78		
	Assum=21kg/sqm				23.73		
	Kg				142.43		
Dasarahalli / Rachenhalli							
RCC Pits,		5	3.14x1.20x1.20/4		5.65		
					5.65		
	Assum=21kg/sqm				23.73		
	Kg				118.69		
Total					807.11		
Tender Quantity					142.38		
Quantity upto 125%					177.98	105.72	18815.52
Quantity Above 125%					629.13	105.72	66514.79
						Sub Total	**35977197.70**
						Add GST @ 18%	**6475895.59**
						Total Amount	**42453093.29**

Technical Sanction Accorded For RS42453093.29 Head of A/C P3205 GEM NO : 70 Dt: 16.03.23 T.A

CERTIFICATE :

1 The work spot has been inspected and found to be necessary.

2 The work spot comes under BBMP Limits.

3 The provisions made in the estimate are necessary and minimum.

4 The estimate is based on PWD SR 2018-19, 2021-22 Vol I, II, III PWD ELE SR 2019-20 +/- Tender Premium.

Assistant Engineer
BBMP

Executive Engineer
BBMP

Executive Engineer
BBMP

Scanned by CamScanner